\*87014\*

Page 1

Monday, July 09, 2012 3:50:32 PM Item 1D: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Skidtube LH Item Name: **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Approvals: Date: 12/07//OTooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. Work Center ID Description Qty **Run Hours** Code Qty Number Stamp Draw Nbr **Revision Nbr** D2750 D3492 C IIN-D350-636 100 0.00 DOCUMENT CONTROL \*100\*

Document Control

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Photocopy blue file and type labels per PPP D350-636-01B CHG 006

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*110* Skidtubes Skidtubes		2- Deburr I AFT end p 3- Drill pil deburr.	er dwg D2750 ot holes for blade fitting b	0.00  ove bending marks. Scribe to the solution of the solutio	pen to 0.500",	CF	16	27-21	6		
	•	fitting 5- Drill onl 6- Drill pil Jig DT815 7- Clecko l ***SECOl 8- Open up fitting loca Open holes	by two fwd step holes using the property of holes as per Dwg D27: 0 & DT8864B on second side ND SIDE***  To holes for SECTION AW tion holes to 0.500" (totals for ground handling and side property)	g bott holes and drill pilot r ng DT9616. Ensure proper p 50 sheet 4 (D2750-3 details) de only DT8864B for secon of tube and drill pilot holes 7-AW to 0.375" (2 holes pe l of 4 holes per side) as per l detail T to 0.500" (8 holes per Dwg D2750 using DT8	ositioning. Drill using drill d side (detail B)  for detail B.  r side) and blade dwg D2750. per side)					12/08	0/

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

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Quality Control

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Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Stop Item Name: Skidtube LH **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Approvals: **Process Plan:** Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 11-Weld D2744 Cap as per Dwg D2750 and QSI 004.Fill grooves in bend left from bending as per QSI 004 A/R Aluminum Rod batch: M122 12-Grind welds flush as per Dwg D2750 120 QC10- Inspect visual per QSI004- ground welds \*120\* Memo Quality Control 130 QC5- Inspect part completeness to step on W/O 0.00 QC 0.00 Memo

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Monday, July 09, 2012 3:50:32 PM Item ID: D350-636-013 Accept Setup Start \*N900040100\* **Revision ID:** Stop Item Name: Skidtube LH **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start **Process Plan: Approvals:** Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description Qty **Run Hours** Code Qty Number Stamp 160 0.00 Skidtubes \*160\* Skidtubes 0.00 Memo Skidtubes 1-Open up holes section AW-AW 0.500" (4 per side) as per dwg D2750 3-Open up holes of Detail T and ground handling to 0.625" (total of 8 holes per side Detail AV-AV) as per dwg D2750. 12/08/01 4-Chamfer holes of section AW-AW, AV-AV, T and ground handling. (welding instructions on sheet 10) 5-Deburr and blow out all chips from inside of tube. Prepare tube for welding. remove alodine as required. 12-88-01 6-Bond web D2739 in place as per OSI 015 A/R Sikaflex-291 7- Weld spacers D3490-1, D3490-5 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 10) A/R Aluminum Rod batch: M122399 8-Grind welds flush as per Dwg D2750

9-Spot face ground handling holes (total of 4 places per side) as per dwg D2750

10-Deburr holes

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#### Work Order ID 87014

HandFinish

Hand Finishing

Monday, July 09, 2012 3:50:32 PM

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Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Skidtube LH Item Name: **Start Date:** 7/10/2012 Start Otv: 1.00 **Cust Item ID:** Req'd Qty: 1.00 Required Date: 7/24/2012 **Customer:** Reference: Run Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Accept Reject Reject Work Center ID **Description Run Hours** Code **Qty** Oty Number Stamp 170 QC10- Inspect visual per QSI004- ground welds \*170\* QC Memo Quality Control 180 QC5- Inspect part completeness to step on W/O \*180\* QC Memo Quality Control 190 Pressure Wash per QSI005 4.3 0.00 \*100\*

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Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

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HandFinish

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HandFinishing

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Hand Finishing 1-Install inserts as per dwg D2750

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Monday, July 09, 2012 3:50:32 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start Revision ID: Item Name: Skidtube LH Start Qty: 1.00 **Start Date:** 7/10/2012 **Cust Item ID:** Req'd Qty: 1.00 Required Date: 7/24/2012 **Customer:** Reference: Run Approvals: **Process Plan:** Date: \_\_\_\_\_ Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description Qty **Run Hours** Code Qty Number Stamp 230 0.00 HandFinishing \*230\* that I My whost 15 HandFinish 0.00 Memo Hand Finishing 1-Inspect for Foreign Objects \_\_2-Spray inside of tube with "LPS-3" batch: \\ \ \A 3-Install blade fitting D3488-041, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: 11172413 5-Coat all exposed fasteners with "LPS Procyon" batch: 1/( 14596 240 QC5- Inspect part completeness to step on W/O \*240\* QC Memo Quality Control

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Monday, July 09, 2012 3:50:32 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Skidtube LH Item Name: Start Qty: 1.00 **Start Date:** 7/10/2012 **Cust Item ID:** Required Date: 7/24/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: **Approvals:** Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Accept Reject Insp. Work Center ID Description Qty **Run Hours** Code Qty Number Stamp 250 Pick Kit 0.00 \*250\* Packaging 0.00 Memo Packaging 260 QC4- 100% Inspect kits for completeness \*260\* QC Memo Quality Control 270 Packaging \*270\* Packaging 0.00 Memo Packaging Package as per PPP D350-636-013

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Monday, July 09, 2012 3:50:32 PM Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Skidtube LH **Start Date:** 7/10/2012 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/24/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Approvals: **Process Plan:** Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Reject Set Up/ Tool # Plan Accept Reject Insp. Work Center ID Description Qty Qty **Run Hours** Code Number Stamp 280 QC21- Final Inspection - Work Order Release 0.00 MUJ 12/08/23 MUJ 12/08/22 \*280\* QC 0.00 Memo Quality Control

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Work Order ID:

87014

Parent Item:

D350-636-013

Parent Item Name:

Skidtube LH

**Start Date:** 7/10/2012

Required Date: 7/24/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:H02.09.25Rearranged procedure steps KJ

IPP rev I 06.03.30

Per rev. D dwg

EC

IPP Rev:J 07-07-28 Added SS Wearplates(Rev E) JLM Verified By:EC

IPP Rev:K 08-09-23 revF as per dwg DD verified by:ec

IPP Rev:L 10.06.22 revise seq110

13

DD\_verf:EC

IPP Rev:M 10 10 01 as ner IIN revH DD verf:EC

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure		Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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Work Order ID: 87014 Parent Item: D350-636-013 **Start Date:** 7/10/2012 Required Date: 7/24/2012 Skidtube LH Start Qty: 1.00 Required Qty: 1.00 Parent Item Name: AN3C5A No 230 Each 1.611.0000 Purchased Bolt Loc Code Location Loc Qty FP001 7 115835 ST350 1604 28 116419 13 117343 117764 7 2 117872 119749 23 120423 28 121255 469 34 121444 500 121708 500 122141 AN3C6A No 230 Each 285.0000 Purchased **BOLT** Location Loc Qty Loc Code FP001 111982 ST351 284 2 111982 23 116419 116549 2 12 116704 10 117619 117688 5 117872 118422 13 119449 21 3 120423 118 120693 121682 74

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Work Order ID: 87014 Parent Item: D350-636-013 **Start Date:** 7/10/2012 Required Date: 7/24/2012 Parent Item Name: Skidtube LH Start Qty: 1.00 Required Qty: 1.00 D2600-3-BENT Manufactured 110 Each 33.0000 Extrusion Bent Location Loc Oty Loc Code LG 33 66875 73253 75021 75022 75023 81330 83305 86330 17 D2739 Manufactured No 160 Each 14.0000 350 I Beam Location Loc Qty Loc Code LG 72155 81508 83448 83548 85486 3 88013 86615 34.0000 Manufactured 250 Each Blade, 350 Skidtube Location Loc Qty Loc Code ST-10 ST466 44 71856 83135 33

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DATE	STEP	PRO	OCEDURE CHA	NGE	I	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	-		-				i			
Part No	•	PAR #:	Fault Cate	gory:	_ NCR:	Yes N	o DQA	<b>\:</b>	Date:	
	R	esolution:	Disposition	n: <u>`</u>	_ QA: N	VC Clo	sed:		Date: _	
NCR:		\	WORK ORD	ER NON-CONFORMA	ANCE (	NCR)				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description  Chief Eng		Sign & Date	Verification Section C		Approval Chief Eng	Approval QC Inspector
			Children's	Office Eng		Dute				
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# **Picklist Print**

Monday, July 09, 2012 3:50:31 PM

Work Order ID:	87014		<i>-</i>						· · · ·	
Parent Item:	D350-636-013						Start D	ate: 7/1	10/2012	Required Date: 7/24/2012
Parent Item Name:	Skidtube LH							<b>Qty:</b> 1.0		Required Qty: 1.00
D3488-041 Blade Fitting Assembly, L	.H	Manufactured	No		230	Each	29.0000	1	JU 1	12108115
				<b>Location</b>	Loc Qty		Loc Code			g 100
				FP001	12					
				85807	12					
				FP002	17			-		
				83407	10				Y /	
				85733	7			_		
D3490-1 Cross Bolt Spacer		Manufactured	No		160	Each	79.0000	4	4	BE14/08/02
				Location	Loc Qty		Loc Code			170
				LG	68					
				81976	2					
				85419	66				4	f
				LG001	11					
				62450	2					
				74875	4					
				77042	3				·	
D3490-5			<b>X</b> T.	83269	2					
Cross Bolt Spacer		Manufactured	No		160	Each	31.0000	. 4	4 = : : : : : : : : : : : : : : : : : : :	B1-12/08/02
				<u>Location</u>	Loc Qty		Loc Code			//
				LG001	31				,	
				83373	31				4	
D3492-1 Plug		Manufactured	No		230	Each	205.0000	8	JU 8	11/08/15
1				Location	Loc Qty		Loc Code			
				FP002	198					
•				69531	8					
				74444	2					
				76235	4	2	20076			
				83259	184	$\mathcal{D}$	0 466 C	_	X &	
				FP-A	7					
		7.1		83098	7					
Monday, July 09, 201	2 3:50:32 PM		<del></del>	Shop	Packet Print		- <del></del>			Page

		- <del></del>										
W/O:			WC	ORK ORDER CHANGE	S							
DATE	STEP	PRO	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
				1								
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Part No	:	PAR #:	Fault Cate	gory:	NCR:	Yes N	lo <b>DQ</b>	<b>\</b> :	_ Date: _			
			Disposition	n: <u>*</u>	QA: N	A: N/C Closed: Date:						
NCR:			WORK ORD	ER NON-CONFORMAI	NCE (I	VCR)						
DATE	STEP	Description of NC			Section B			ation	Approval	Approval		
DAIE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Section		Chief Eng	QC Inspector		
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Work Order ID:	87014									
Parent Item:	D350-636-013						Start D	<b>ate:</b> 7/10	/2012	Required Date: 7/24/2012
Parent Item Name:	Skidtube LH						Start	<b>Qty:</b> 1.00	l	Required Qty: 1.00
<b>D3492-5</b> Plug		Manufactured	No		230	Each	135.0000	8	JU 8	12/08/15
				<u>Location</u>	Loc Qty		Loc Code			
				fpa	13	5				
4	4			83100	3					
2002				83530	10	1			X 8	
D3493-1	t	Manufactured	No		110	Each	97.0000	2	2	
washer ////	`							:	and the second discount services	magas
M				Location	Loc Qty		Loc Code			
M				ST050	9	7				
120				77573		1				
				82023		2				
D3535-25				83097	9.					
Wearshoe		Manufactured	No		230	Each	32.0000	1	n I	1 .1 -
Weatshoe								s wilder sta		1108/15
				<b>Location</b>	Loc Qty		Loc Code			
				FP001	3:	2				
				62233		1				
				81357		1				
				83387	1.				X_\	
D3536-25				83899	1.					
Gasket		Manufactured	No		230	Each	22.0000	1	HI 1	1 -1.5
Gusket								== ·1.	50X	12/08/15
				<b>Location</b>	Loc Qty		Loc Code			
				FP	22	2				
				83391	(					
				83900	16	5			X (	

W/O:			WC	RK ORDER CHANG	ES							
DATE	STEP	PRO	OCEDURE CHAI	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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			<del></del>									
								•				
Part No		PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	Date: _				
						QA: N/C Closed: Date:						
NCR:			WORK ORDI	ER NON-CONFORMA	ANCE (NCF	R)						
DATE	STEP	Description of NC Section A		on B	Verific	cation	Approval	Approval				
DAIL	O I E I		Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	<sup>t</sup> Secti	on C	Chief Eng	QC Inspector			
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Work Order ID:	87014					*****			
Parent Item:	D350-636-013						Start I	Date: 7/10/2012	Required Date: 7/24/2012
Parent Item Name:	Skidtube LH							<b>Qty:</b> 1.00	Required Qty: 1.00
D3537-1 Wearpad		Manufactured	No		230	Each	112.0000	•	31108/15
				Location	Loc Qty		Loc Code		
				FP002	112				
				81362	3				<del></del>
				83254	1				
				83255	3				<u> </u>
				83256	20				
				85457	37				<del></del>
				<u>8545</u> 8	48			<u> x.s</u>	
<b>D3631-1</b> Washer		Manufactured	No		230	Each	283.0000	8	U8 11/08/15
				Location	Loc Qty		Loc Code		
				FG	268				
				81874	2				<del>_</del>
				83588	266			XS	
				ST072	15			<del>- ^ 6</del>	<del></del>
				68062	2				<del></del>
				75548	13				<del></del>
<b>D3791-1</b> Wearplate		Manufactured	No		230	Each	26.0000	1 H)	1 12/08/15
				<u>Location</u>	Lande			: +: + = === <b>/</b> -: <b>X</b> :	Samuela Color Dalar Samuela and man
					Loc Qty		Loc Code		
				FP002	26				No.
				62239	2				
				83392	12				<u> </u>
D3793-1			N.T	83902	12			X_/	
D3793-1 Wearshoe		Manufactured	No		230	Each	26.0000	1 <u></u>	VI 108/15
				Location	Loc Qty		Loc Code		•
				FP001	26				
				82171	2				<del>_</del>
				83393	- 11				<del>_</del>
				83903	13			X 1	<del>_</del>
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W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
								•	
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	A:	_ Date: _	
Resolution:			Dispositio	n: <u>`</u>	_ QA: N/C CI				
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR	3)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	Verification Approval		Approvai
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector
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Work Qrder ID: 87014 Parent Item: D350-636-013 **Start Date: 7/10/2012** Required Date: 7/24/2012 Parent Item Name: Skidtube LH Start Qty: 1.00 Required Qty: 1.00 D3793-3 Manufactured 230 Each 28.0000 Wearshoe Location Loc Qty Loc Code FP001 28 83394 16 83901 12 D3794-1 Manufactured No 230 Each 24.0000 Gasket Location Loc Oty Loc Code FP 82167 4 FP002 20 83395 20 D3794-3 No 230 Manufactured Each 45.0000 Gasket Location Loc Qty Loc Code FP 19 83396 19 FP002 26 74530 2 86243 24 MS21043-6 No 230 4/41 12/08/15 Purchased Each 586.0000 NUT Location Loc Qty Loc Code FG 20 103693 20 ST301 566 117887 2 118384 64 120308 500

W/O:			V	ORK ORDER CHANGI	FS		<del></del>				
DATE	STEP	PRO	CEDURE CH		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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								,			
	<u> </u>					<del></del>					
Part No: PAR #:					NCR: Yes No DQA: Date:						
Resolution:			Disposit	ion: <u>`</u>	QA: N/C CI	QA: N/C Closed: Date:					
NCR:		V	VORK OR	DER NON-CONFORMA	NCE (NCR	<b>(1)</b>					
DATE	STEP	Description of NC		Corrective Action Section		ication Approval	Approval	Approval			
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector		
		1-01-1									
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Work Order ID:

87014

Parent Item:

D350-636-013

**Start Date:** 7/10/2012

Required Date: 7/24/2012

Parent Item Name: Skidtube LH						Qty: 1.00	Required Qty: 1.00
MS21083C8 NUT	Purchased	No		230 Eac		1 11	
			<b>Location</b>	Loc Qty	Loc Code		
			304	39			
			121185	22			
			121349	17			
			FP002	1			
			115884	1			
			ST303	4			
			115884	0			
	• •		118077	1			
			119309	2			
			119638	l -			
			ST321	50		<del></del>	
MS21083C8	December 1	No	122141	50			
NUT	Purchased	NO		250 Eac	h 94.0000	2 M1334	Proble cz
			Location	Loc Qty	Loc Code		1
			304	39			
			121185	22			
			121349	17			
			FP002	1			
			115884	1			
			ST303	4			
			115884	0			
			118077	1			
			119309	2			
			119638	1			
			ST321	50		<del>.</del>	
			122141	50			

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W/O:		***************************************	W	ORK ORDER CH	ANGES					
DATE	STEP	PRO	DCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			,							
Part No	•	PAR #:	Fault Cat	egory:	NCF	R: Yes I	No <b>DQ</b>	A:	Date: _	
	Re	solution:	Dispositi	on: <u>'</u>	QA:	N/C Clo	sed:		Date: _	
NCR:			WORK ORD	DER NON-CONFO		(NCR	)		~ .	
DATE	STEP	<b>Description of NC</b> Section A	<b>Initial</b> Chief Eng	Corrective Action Action Descrip Chief Eng	Section B	Sign & Section C			Approval Chief Eng	Approval QC Inspector
		. •								
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				-				:	•	
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Parent Item Name: Skid NAS1149C0832R	i0-636-013 Itube L.H Purchased	N				Start D	<b>Date:</b> 7/10	)/2012	Required Date: 7/24/2012
NAS1149C0832R		NI.							Required Bate. WZ WZ 012
	Purchased	NT.				Start	<b>Qty:</b> 1.00	)	Required Qty: 1.00
WASHER		No		230	Each	250.0000	1	<u> </u>	(2/08/15
			<b>Location</b>	Loc Qty		Loc Code			
			ST297	250					
			114915	250				<i>)</i> (	Λ
NAS1149D0863J WASHER	Purchased	No	<u>-</u> -	250	Each	221.0000	2	2	Tel .
			Location	Loc Qty		Loc Code			1
			ST298	221					
			118078	34					
			119307	1					
			120308	86					
			121556	100					
NAS1515H3L WASHER	Purchased	No		230	Each	311.0000	4	JU 4	n 108/15
			Location	Loc Qty		Loc Code			
			FG	40					
			102472	40					
			ST277	271					
			118686	3					
			120360	11					
			121556	57					
			122151	200				χч	
<b>NAS1611-005</b> O-RING	Purchased	No		230	Each	140.0000	8	8	II 12/08/15
			<u>Location</u>	Loc Qty		Loc Code			
			FP001	140					
			106099	18					
			114220	46					
			119438	36			_	x &	
			121415	40					

W/O:			W	ORK ORDER CHANG	ES			٠.	•
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		·PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	Date: _	
	R	desolution:	Dispositio	n:	_ QA: N/C C	losed:		Date: _	1455 145
NCR:		V	VORK ORD	ER NON-CONFORM <i>A</i>	ANCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Secti		Verific	Verification Approx		Approval
DAIE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Secti		Chief Eng	QC Inspector
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Monday, July 09, 2012 3:50:32 PM

Work Order ID:

87014

Parent Item:

D350-636-013

Parent Item Name:

Skidtube LH

**Start Date:** 7/10/2012

Required Date: 7/24/2012

Start Qty: 1.00

Required Qty: 1.00

<b>NAS1611-010</b> O-RING	Purchased	No	230	Each	416.0000	8 218 12/08/15
		Location	1			

Location	Loc Qty	Loc Code	
FP001	416		
110915	14		
117460	8		
118077	1		
118612	3		
119438	47		
121259	2		
121584	2		
121723	39		
122151	300		<u> </u>

	•								•			
W/O:			W	ORK ORDER CHANG	ES			•				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No					NCR: Yes No DQA: Date:							
··· <del>·</del>	Resolution:							Date: _				
NCR:		\	WORK ORI	DER NON-CONFORMA	ANCE (NCF	<b>?</b> )						
DATE	STEP	Description of NC	Description of NC Section A Initial Action Description			Verific		Approval	Approval			
		Section A	Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector			
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D2750-041 350 SKIDTUBE ASSEMBLY, LH D2750-042 350 SKIDTUBE ASSEMBLY, RH DESIGN DART AEROSPACE USA, INC.
PORT HADLOCK, WA DRAWN DRAWING NO. D2750 CHECKED REV. F MFG. APPR. SHEET 2 OF 11 APPROVED SCALE DE APPR. DATE 08.07.16 5

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W/O:			WC	RK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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						· <del>· · · · · · · · · · · · · · · · · · </del>			
Part No	:	PAR #:	Fault Cate	Jory:	NCR: Yes	No DQ	<b>\</b> :	Date: _	
	Re	esolution:	Disposition	); <u>'</u>	QA: N/C CI	osed:		Date: _	<del></del>
NCR:			WORK ORDI	R NON-CONFORMA	NCE (NCR	l)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	cription Sign &		ation	Approval Chief Eng	Approval QC Inspector
			Office Ling	Ciliei Eng	Date				
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•	QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
	Х		ĺ		D2750-041	350 SKIDTUBE ASSEMBLY, LH
		X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
•			X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
				Х	D2750-044	350 SKIDTUBE ASSEMBLY, RH
	1	1	1	1	D2739	WEB
	8	8	8	8	D2743	SPACER
	1	1	1	1	D2744	CAP
	8	8	8	8	D2745	BUSHING
	1				D2750-1	SKIDTUBE WELDMENT, LH
		1			D2750-2	SKIDTUBE WELDMENT, RH
			1		D2750-3	SKIDTUBE WELDMENT, LH
				1	D2750-4	SKIDTUBE WELDMENT, RH
	1	i	1		D3488-041	BLADE FITTING, LH
		1	i	1	D3488-042	BLADE FITTING, RH
	4	4	4	4	D3490-1	SPACER
	4	4			D3490-3	SPACER
			4	4	D3490-5	SPACER
	8	8	8	8	D3492-041	PLUG ASSEMBLY
	8	8			D3492-043	PLUG ASSEMBLY
			- 8	8	D3492-045	PLUG ASSEMBLY
	1	1	1	1	D3535-25	WEARSHOE
	1	1	1	1	D3536-25	GASKET
Æ	3	3	3	3	D3537-1	WEARPAD
حت	8	8	8	8	D3631-1	WASHER
Г	1	1	1	1	D3791-1	WEARPLATE
1	1	1	1	1	D3793-1	WEARSHOE
<u> </u>	1	1	1	1	D3793-3	WEARSHOE
Æ i	1	1	1	1	D3794-1	GASKET
	1	1	1	1	D3794-3	GASKET
L						
<u></u>	38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
i	34	34	34	34	AN3C5A	BOLT
_	4	4	4	4	AN3C6A	BOLT
	4	4	4	4	AN6C44A	BOLT
	1	1	1	1	AN8C35A	BOLT
^ [	38	38	38	38	AN960C10L	WASHER
Æ—	1	1	1	1	AN960C816L	WASHER
<u>_</u>	4	4	4	4	MS21043-6	NUT
	1	1	1	1	MS21083C8	NUT
	4	4	4	4	NAS1515H3L	WASHER
				<u> </u>	I W TO TO TOTTOL	

F	ADD 03791-1 (ZN C8-1 WEARSHOE HOLES U (8 PL), WEARSHOE HA	OTY (5) (ZN C8-1); D D353-613-735 (ZN C8-1); D D353-613-735 (ZN B8-1); ) D DEF FWDIAFT SADDLE REMOVED RADWARE OTY UPDATED (ZN B8-1); WARE UPDATED (ZN C1-8, 9, 10, 11); (ZN A6-1);	РН	08.07.16
E	ADD RUBBER GASKE REMOVE QTY (38) NA	SS STEEL WEARPLATES; TS; CHANGE INSERTS; ADD D3631-1; S1515H3L; REMOVE QTY (10) E D2741, QTY (2) AN960C816; 1083C8	СВ	07.05.17
D	ADD HOLES AND SHA INCORPORATE DEO 9	CERS FOR APICAL FLOATS; 9133/9157	РН	06.01.05
С	ADD D2750-3/D2750-4	INCORPORATE D2738 AND D2740	CP	98.11.18
В	CHANGE MS24694-S2	93 TO AN8-16A	CP	98.09.01
Α	NEW ISSUE		DS	98.04.16
REV.		DESCRIPTION	BY	DATE
DESIG	N 9/1	DADT AFRACE	LICA	INIC

DART AEROSPACE USA, INC. DRAWN PORT HADLOCK, WA DRAWING NO. CHECKED REV. F D2750 MFG. APPR. TITLE APPROVED 350 SKIDTUBE ASSEMBLY DE APPR. DATE 08.07.16

SHEET 1 OF 1 SCALE NTS COPYRIGHT © 1938 BY DART AEROSPACE USA, INC.

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#### GENERAL NOTES:

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MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0). FINISH:

MATERIAL: MAKE D2750-11-21-31-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
UNITS: INCHES UNLESS OTHERWISE NOTED
BREAK SHARP EDGES: N/A
IDENTIFICATION: N/A
WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
WELD PER DART QSI 004
INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø 0.297) FOR WEARSHOE INSERTS
FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM VIELD TENSILE STRENGTH = 38 KSI
SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

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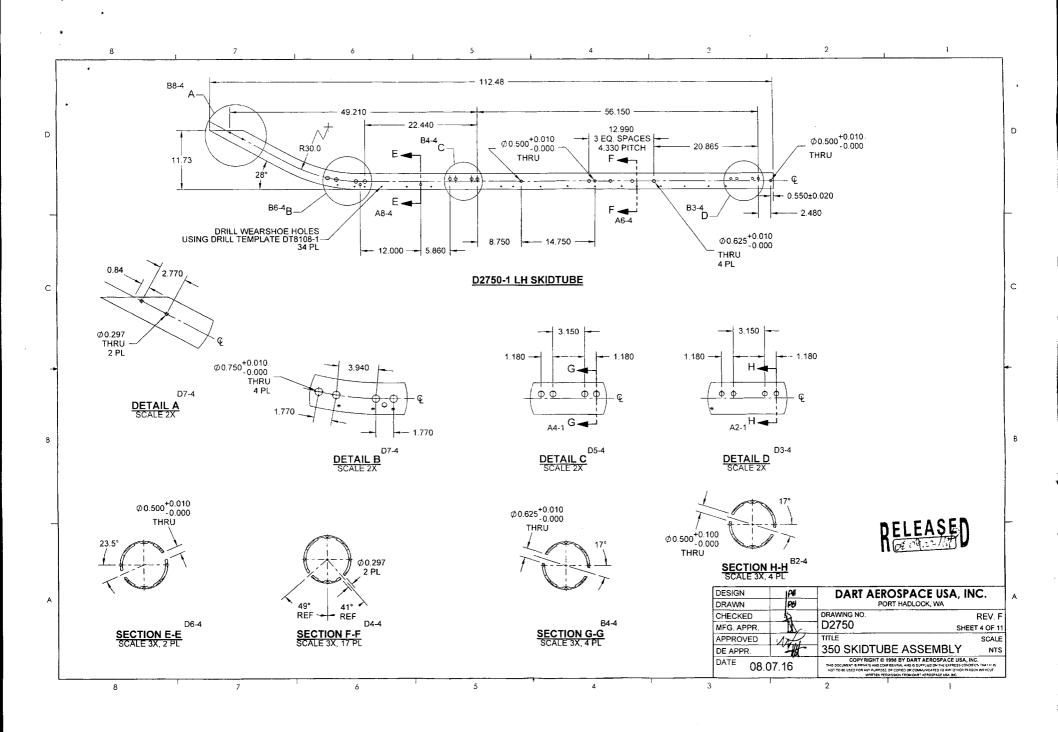
	•								
W/O:			WC	ORK ORDER CHANG	GES			•	
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No	DQA:	Date: _	
	Re	esolution:	Dispositio	n: <u>`</u>	QA: N/C	Closed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NO	CR)			
DATE	STEP	Description of NC			ction B	Ve	rification	Approval	Approval
		Section A	<b>Initial</b> Chief Eng	Action Description Chief Eng	Sig Da		Section C	Chief Eng	QC Inspector
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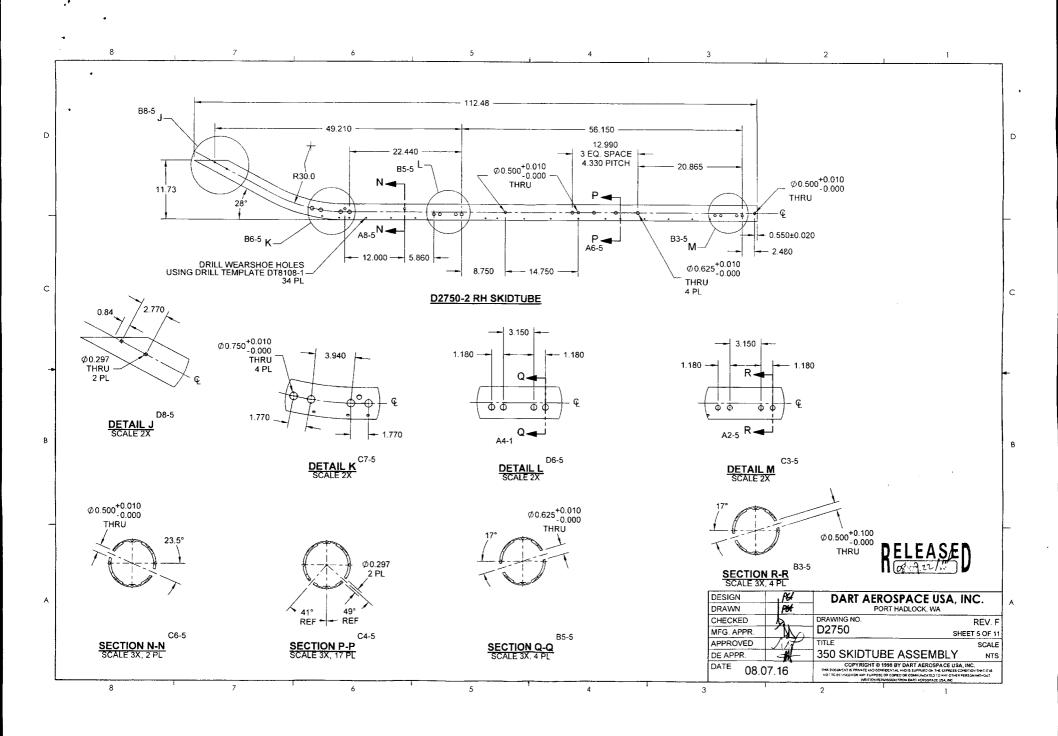
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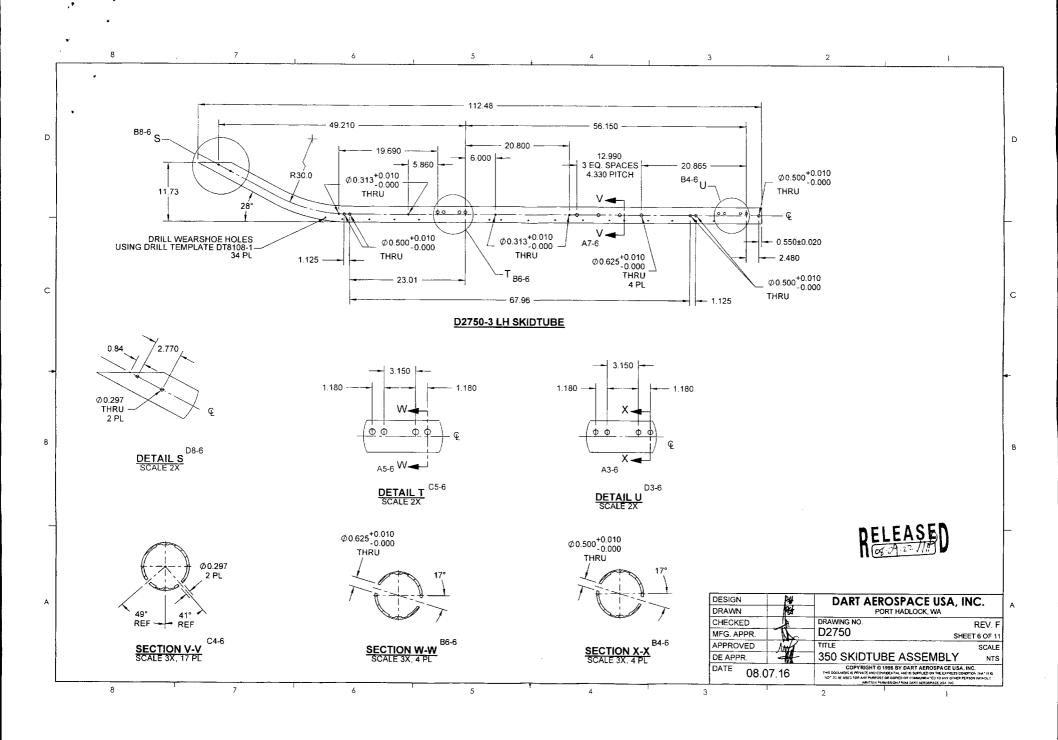
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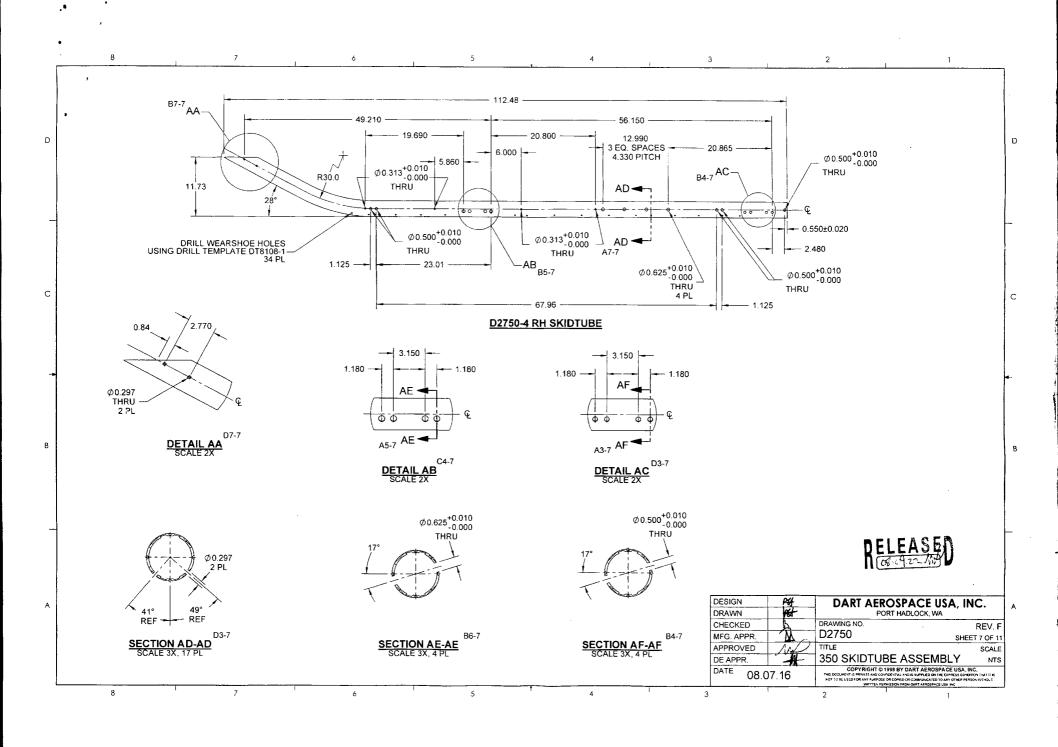
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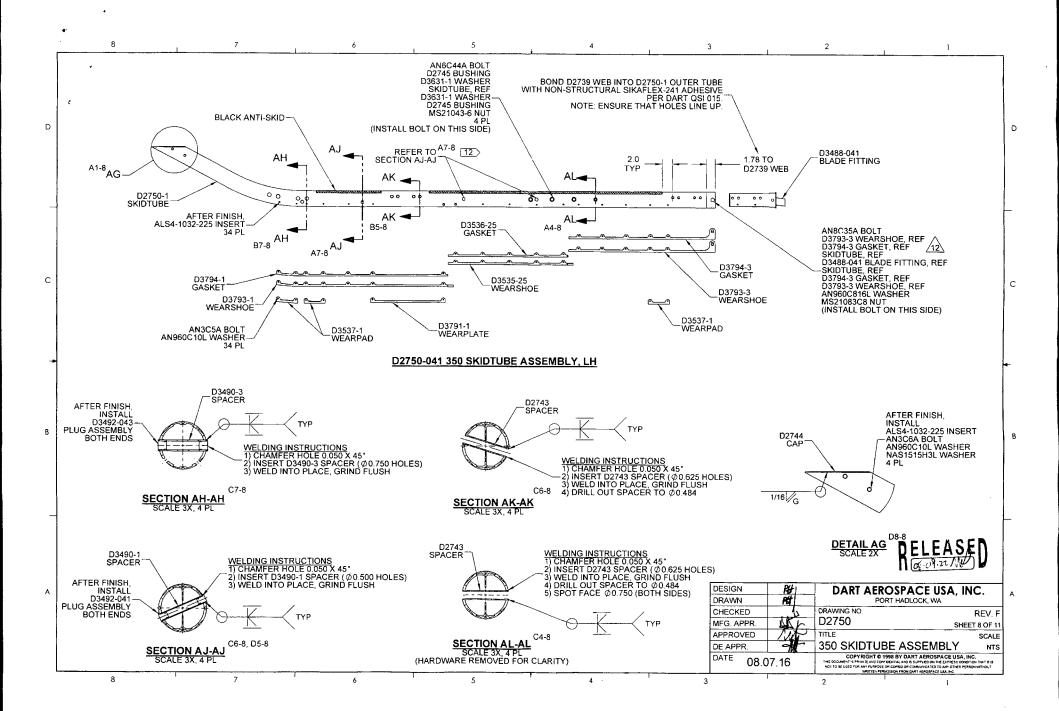
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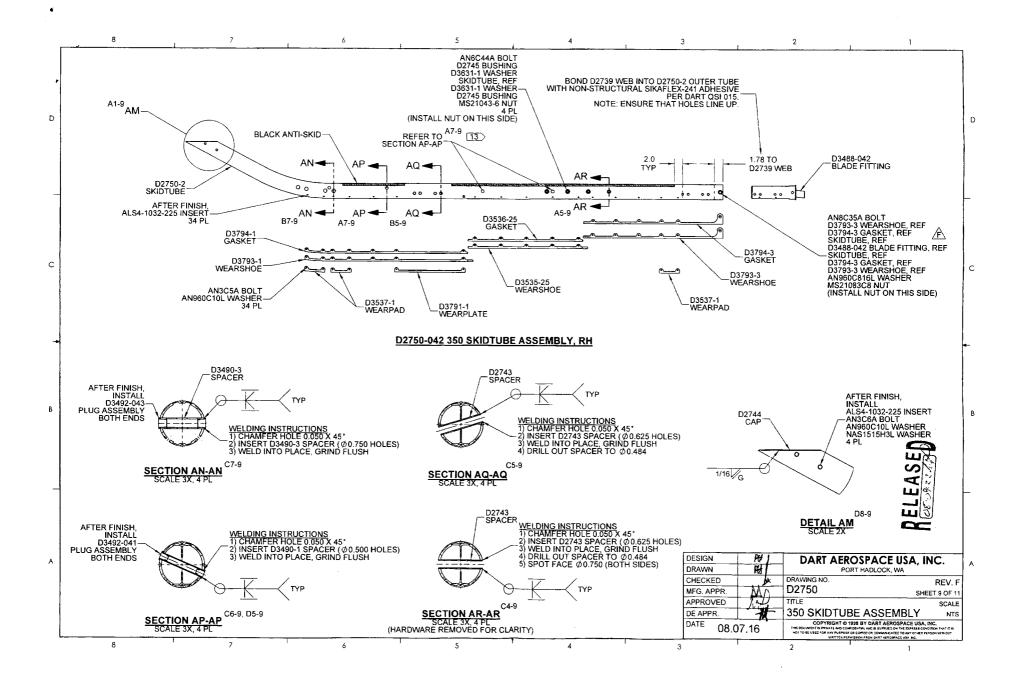
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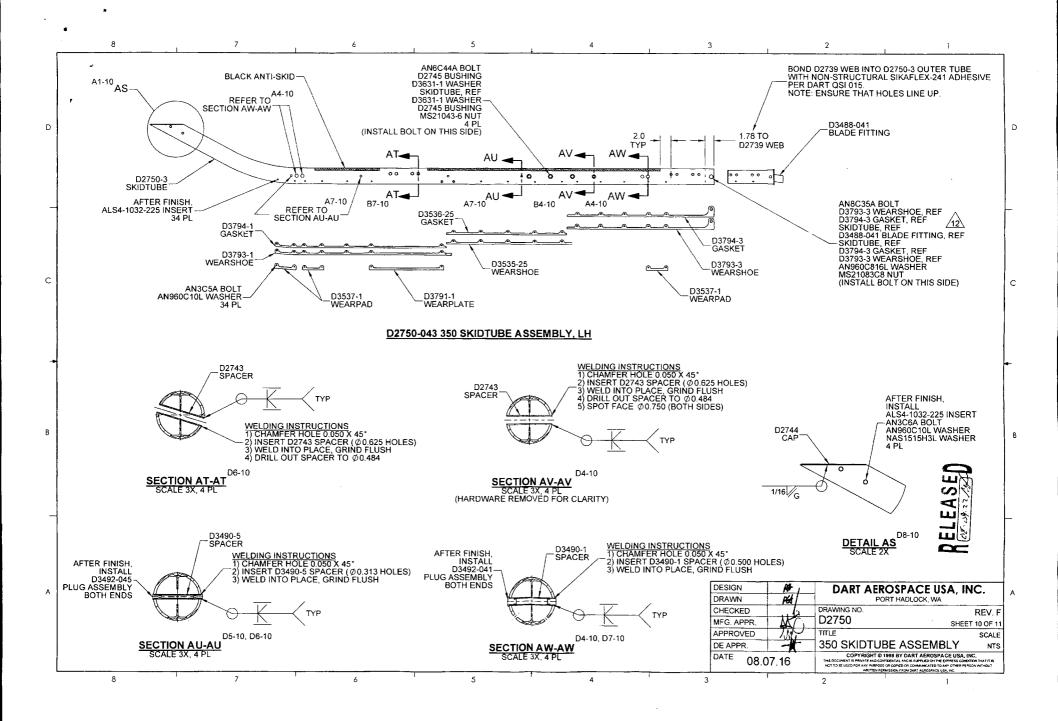
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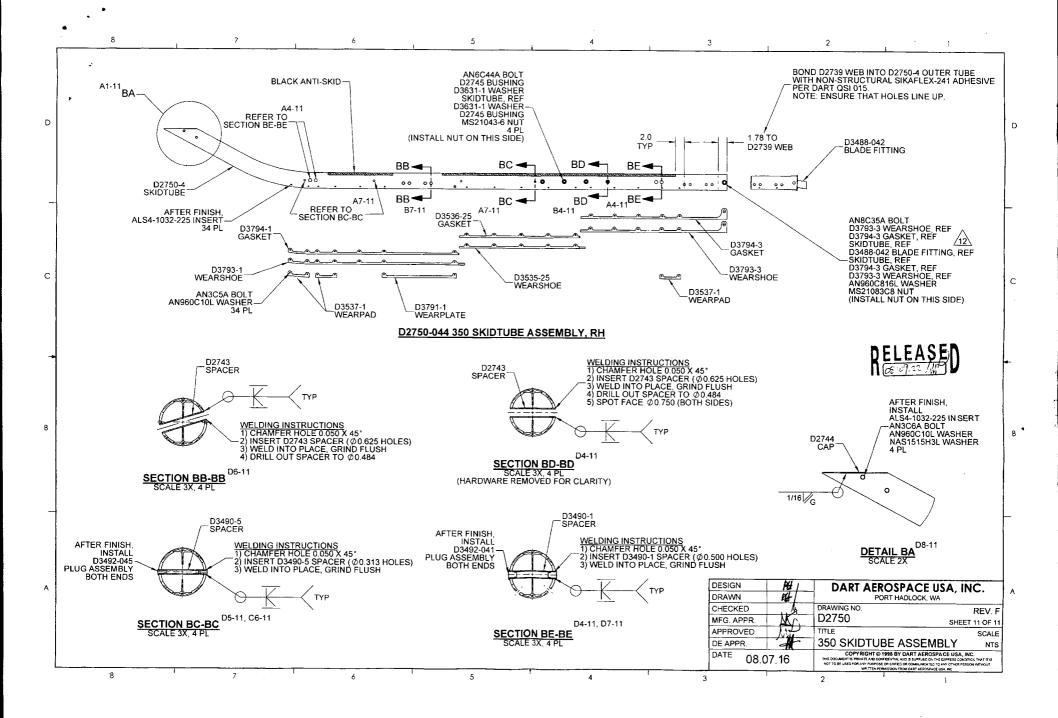
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NO. 300

# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name:	Barday Elliott	
Job #:	87941	
Part #:	D350-636-011	
Description:	Skid	
Welding Pro	ocess: Tig[-1 Mig[]	
Base materie		
Current: AC	C[Y DC[]	·

## TEST REQUIREMENTS AND RESULTS

Visual:	pass[ ] fail[	]
Incomplete Penetration:	pass[/] fail[	]
Incomplete Fusion:	pass[ ] fail[	]
Cracks:	pass[/] fail[	]
Overlap (cold lap)	pass['] fail[	
Undercut:	pass[] fail	$[\ ]$
Pin holes:	pass[] fail[	]
Porosity (surface):	pass[/ fail[	]
Coloration:	pass[] fail[	]
Burn through:	pass[   fail[	]

Qualifier Date of Test Coupon 12.07.26

Welder Bareloy Elliot Date of Test Coupon 12-07-24

The above named individual is qualified in accordance with AWS D17.1.2001 to weld